Each

Dart Aerospace Ltd. Thursday, 11/22/2007 1:31:26 PM Chantal Lavoie Hser. **Process Sheet** : LABEL Customer : CU-DAR001 Dart Helicopters Services **Drawing Name** Job Number : 35964 **Estimate Number** : 13064 **Part Number** : D36711 P.O. Number S.O. No. : N . D3671 REV A **Drawing Number** This Issue : N/A **Project Number** Prsht Rev. : PURCHASED PARTS First Issue Туре **Drawing Revision** Material **Previous Run Due Date** : 11/29/2007 Qty: 110 Um: Written By Checked & Approved By EC verified by:DD Comment : Est: A 07.11.12 ecn 1019 New issue **Additional Product** Job Number: Seq. #: **Machine Or Operation:** Description: 1.0 PG PURCHASING . Comment: PURCHASING rdo7/11/22 Issue P/O: 5110 Make as per Dwg D3671 Red letters (0.100" height) on white adhesive back Possible Manufacture: From 3M 7 mil masking film # 8522CP or Possible Supplier: Studio Lettrage Material release note is required 2.0 D36711 **PLACARD** Comment: Qty.: 1.0000 Each(s)/Unit Total: 110.0000 Each(s) PACKAGING RESOURCE #1 PACKAGING 1 Comment: PACKAGING RESOURCE #1 Recieive & Inspect for Transit Damage Ensure Material Release Note is attached QC6 4.0

Comment: DIMENSIONAL CHECK

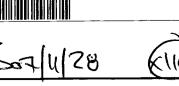
5.0 PACKAGING 1

Comment: PACKAGING RESOURCE #1 Identify and Stock

Location:\_\_\_\_



PACKAGING RESOURCE #1



| <b>W</b> /O: |      | WORK ORDER CHANGES |    |      |     |                                     |                          |  |  |
|--------------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|--|--|
| DATE         | STEP | PROCEDURE CHANGE   | Ву | Date | Qty | Approval<br>Chief Eng /<br>Prod Mgr | Approval<br>QC Inspector |  |  |
|              |      |                    |    |      |     | ,                                   |                          |  |  |
|              |      |                    |    |      |     |                                     |                          |  |  |
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|              |      |                    |    |      |     |                                     |                          |  |  |
|              |      |                    |    |      | 1   |                                     |                          |  |  |

| Part No: | PAR #: | Fault Category: | NCR: Yes No DQA: | Date: <u>SAUID</u> 8 |
|----------|--------|-----------------|------------------|----------------------|
|          |        |                 | QA: N/C Closed:  | Date:                |

| NCR:        |      |                   | WORK ORDER NON-CONFORMANCE (NCR) |                              |                |                           |                       |                          |  |  |  |
|-------------|------|-------------------|----------------------------------|------------------------------|----------------|---------------------------|-----------------------|--------------------------|--|--|--|
|             |      | Description of NC |                                  | Corrective Action Section B  |                | Varification              | A1                    | <b>A</b>                 |  |  |  |
| DATE        | STEP | Section A         | Initial<br>Chief Eng             | Action Description Chief Eng | Sign &<br>Date | Verification<br>Section C | Approval<br>Chief Eng | Approval<br>QC Inspector |  |  |  |
|             |      |                   |                                  |                              |                |                           | i.                    |                          |  |  |  |
|             |      |                   |                                  |                              |                |                           |                       |                          |  |  |  |
| <del></del> |      | 199.55            |                                  |                              |                |                           |                       |                          |  |  |  |
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|             |      |                   |                                  |                              |                |                           |                       |                          |  |  |  |
|             |      |                   |                                  |                              |                |                           |                       |                          |  |  |  |

NOTE: Date & initial all entries

Datë: User:

Thursday, 11/22/2007 1:31:26 PM

Chantal Lavoie

**Process Sheet** 

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: LABEL

Job Number: 35964

Part Number: D36711

Job Number:



Seq. #:

**Machine Or Operation:** 

Description :

6.0

QC21

FINAL INSPECTION/W/O RELEASE



(116)

Comment: FINAL INSPECTION/W/O RELEASE

Job Completion



Le 87.11.29

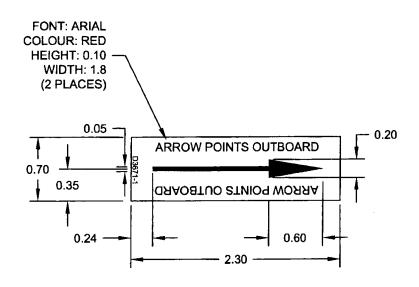
## **Dart Aerospace Ltd**

| W/O:                                  |      |        | WORK ORDER C    | HANGES   |       |     |                               |                          |
|---------------------------------------|------|--------|-----------------|----------|-------|-----|-------------------------------|--------------------------|
| DATE                                  | STEP | PRO    | OCEDURE CHANGE  | Ву       | Date  | Qty | Approval Chief Eng / Prod Mgr | Approval<br>QC Inspector |
|                                       |      |        |                 |          |       |     |                               |                          |
| · · · · · · · · · · · · · · · · · · · |      |        |                 |          |       |     |                               |                          |
|                                       |      |        |                 |          |       |     |                               |                          |
|                                       |      |        |                 |          |       |     |                               |                          |
| Part No                               | •    | PAR #: | Fault Category: | NCR: Yes | No DQ | A:  | Date:                         |                          |

QA: N/C Closed: \_\_\_\_ Date: \_\_\_\_

| NCR: |      |                   | WORK ORDER NON-CONFORMANCE (NCR) |                              |                |                           |                       |                          |  |  |
|------|------|-------------------|----------------------------------|------------------------------|----------------|---------------------------|-----------------------|--------------------------|--|--|
|      |      | Description of NC | Corrective Action Section B      |                              |                | Varification              |                       |                          |  |  |
| DATE | STEP | Section A         | Initial<br>Chief Eng             | Action Description Chief Eng | Sign &<br>Date | Verification<br>Section C | Approval<br>Chief Eng | Approval<br>QC Inspector |  |  |
|      |      |                   |                                  |                              |                |                           |                       | <u> </u>                 |  |  |
|      |      |                   |                                  |                              |                |                           |                       |                          |  |  |
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|      |      |                   |                                  |                              |                |                           |                       |                          |  |  |
|      |      |                   |                                  |                              |                |                           |                       |                          |  |  |
|      |      |                   |                                  |                              |                |                           |                       | 1                        |  |  |

NOTE: Date & initial all entries



#### **D3671-1 PLACARD**

#### NOTES:

1) MATERIAL: RED ARROW ON WHITE ADHESIVE BACK VINYL

MANUFACTURED FROM 3M 7 MIL MASKING FILM #8522CP OR AVERY IPM #2031. SIZE IS 2.30" LONG x 0.70" WIDE

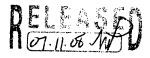
2) FINISH: NONE

3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED

4) UNITS: INCHES UNLESS OTHERWISE NOTED 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX

6) IDENTIFICATION: NONE

7) WEIGHT: N/A



| Α                  | NEW IS     | SSUE | DC   | 07.08.27 |       |  |  |
|--------------------|------------|------|--|----------|-------|--|--|
| REV.               |            |      | ESCRIPTION   | BY       | DATE  |  |  |
| DESIGN BC DRAWN DC |            |      | DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA   |          |       |  |  |
|                    |            |      |  |          |       |  |  |
| MFG. AF            | MFG. APPR. |      | D3671 SHEET 1  |          |       |  |  |
| APPRO\             | /ED        | M    | TITLE  |          | SCALE |  |  |
| DE APPR.           |            |      | PLACARD 1:   |          |       |  |  |
| DATE 07.08.27      |            |      | COPYRIGHT © 2007 BY DART AEROSPACE LTD  THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD. |          |       |  |  |

## **Product Bulletin 8522**

Release F, Effective January 2003 Black bar in margin indicates a change



# Scotchcal ™ **Opaque Imaging Media 8522**

## Description

This media is specially formulated to dry quickly after printing. Production of outdoor weatherable and long-term indoor durable graphics is now easier than ever. Its changeable adhesive allows easy removal for up to one year.

### Advantages

- Optimized for use with selected Epson Stylus Pro printers and Epson Archival inks.
- Optimized for use with selected HP DesignJet Printers and HP DesignJet Ink System UV or HP83UV Color Ink System
- For making opaque, laminated graphics that are outdoor weatherable and long-term indoor durable
- Media:
  - For opaque (reflective) graphics
  - Changeable, easy to remove from warranted substrates up to 1 year later
  - Dries quickly after printing so the overlaminate can be applied almost immediately
  - Low slippage paper liner for superior tiling
- Overlaminates:
  - Provide additional UV (ultraviolet) and physical protection for making weatherable finished graphics
  - Available in luster and matte gloss
  - Adhesive allows for heat-assisted or cold-temperature lamination

### Applications and Uses

3M Scotcheal Changeable Opaque Imaging Media 8522 is intended only for ink jet printing and for use with the tisted Compatible Products and Equipment and the following applications. Any other application is NOT warranted by 3M or covered by the worldwide 3M \* MCS \* Warranty unless 3M gives its prior written approval for the application.

- First surface images (the image is on top of the film) for opaque posters and signs, including:
  - Graphics for vans, personal vehicles, trucks and
  - Novelty posters
  - Retail and point-of-purchase displays
  - Information graphics such as maps and directories
  - Entertainment promotions in museums, zoos, parks, theatres, sports venues
  - Education and presentation graphics

- Legal and courtroom exhibits
- For flat or simple curved surfaces, with or without rivets, used in vertical (± 10°) applications

### Limitations of End Uses

The following uses and applications are specifically NOT warranted.

- Fleet applications in areas that use salt for winter read maintenance
- Application to non-warranted substrates, including wall-
- Applications subjected to gasoline vapors or spills
- Application to corrugated or highly irregular surfaces or sharply raised areas
- Graphics applied to stainless steel, including stainless steel vehicles
- On flat surfaces with rivets, tenting of 4 to 10 mm around rivets may be expected; rivets may be cut around to eliminate tenting.

Standard ink jet technology is water based. Walerbased chemistry is susceptible to the extremes (f neat and humidity. This is a factor in most product constructions on the market. Read the Fabrication. Shelf Life and Storage sections in this bulletin. Staying in the middle of these ranges always provides optimum performance.

## **Compatible Products and Equipment**

### Thermal Ink Jet Printing Systems

- Epson Stylus Pro 9500, Stylus Pro 10000 printer
  - Epson Archival Inks
- Epson Stylus Pro 10600 printer
  - Epson Archival Inks
- HP DesignJet Printers 2000 and 3000 series
  - HP DesignJet Ink System UV (pigment-based ink)
- HP DesignJet Printers 5000 series
  - HP83UV Color Ink System

### Overlaminates (required)

- 3M \*\* Luster Overlaminate 8519 (semi-gloss)
- 3M <sup>™</sup> Matte Overlaminate 8520

Note: For the full product names of the 3M products listed on this page, please see page 1.

## Warranted Substrates

Media 8522 is warranted for use on the following rigid substrates.

Some substrates may "out-gas", resulting in tiny bubbles throughout the surface of the graphic. For maximum performance, be sure the substrate you select is properly cleaned and prepared as recommended by the manufacturer. See Instruction Bulletin 5.1 for additional information.

- Alodine (anodized aluminum)
- Automotive panels (automotive painted steel)
- Fruehauf (painted aluminum)
- FRP (fiberglass reinforced plywood)
- Imron® (polyurethane-painted metal panel)
- Acrylic
- Sintra™ board

## Test and Approve Non-warranted Substrates Before Use

Media 8522 is not warranted for any substrate other than those listed above. If you want to use it for other substrates, 3M recommends that you test and approve the media for both adhesion and removal characteristics.

## Characteristics

| Characteristic                       | Description   |
|--------------------------------------|---|
| Media                                | 7 mil, white, opaque graphic film   |
| Liner                                | Low-slippage, lay flat paper  |
| Adhesive                             | Changeable, pressure sensitive  |
| Thickness<br>(media and<br>adhesive) | 7.5 to 8 mil (nominal)  |
| Application substrates               | See Warranted Substrates, above   |
| Application surfaces                 | Flat or simple curved surfaces, with or without rivets, used in vertical (± 10°) applications (no corrugations) |
| Application temperature range        | 28° to 110°F (-2° to 43°C)<br>(air and surface)   |
| Roll sizes                           | 36" x 45 feet (914 mm x 13.5 m)<br>54" x 45 feet (1372 mm x 13.5 m)   |

## How to Become a 3M Ink Jet **Registered Fabricator**

Only 3M Thermal Ink Jet Registered Fabricators are eligible to offer 3M MCS warranted graphics. In order to become certified, a fabricator must complete the requirements as specified in the 3M Ink Jet Graphics Registered Fabricator Reference Manual located on the 3M website at www. scotchprint.com

## **Effective Performance Life**

To obtain the warranty given below, the graphics must be made according to 3M's recommendations which are detailed in the Warranty and Limited Remedies on page 3. Also see the section, Removability.

### Warranted Durability

| Media 8522                            | Epson Pr | inters  | HP Printers |         |  |  |
|---------------------------------------|----------|---------|-------------|---------|--|--|
| with<br>Overlaminate<br>8519 or 8520  | Outdoor  | Indoor  | Outdoor     |         |  |  |
| Applied to<br>Warranted<br>Substrates | 2 years  | 5 years | 3 years     | 5 years |  |  |

## Removability

Imaging media 8522 is removable from warranted substrates for 1 year without the aid of chemical strippers or accessories. Refer to Instruction Bulletin 4.23 for additional information.

### **Fabrication**

Graphics must be made according to 3M's recommendations which are detailed in the Warranty and Limited Remedies on page 3.

See Instruction Bulletin 4.23 for detailed fabrication, printing and mounting information.

# **Graphic Construction Options**

## Opaque (Reflective) Graphics

Opaque graphics made with imaging media 8522 require an overlaminate and an opaque substrate.

Viewer/Light Source Overlaminate 8519, 8520 Adhesive on bottom Imaging Media 8522 Image on top; adhesive on bottom Opaque Substrate

Note: For the full product names of the 3M products listed on this page, please see page 1.

## **Shelf Life and Storage**

- 3M<sup>™</sup> Scotchcal <sup>™</sup> Changeable Opaque Imaging Media 8522 has a shelf life of one year.
- Storage conditions (new and partially used rolls). For optimum performance, use the middle of these ranges:
  - Original packaging, including plastic wrap
  - Relative humidity of 20% to 80%
  - Temperature of 33° to 104°F (0° to 40°C)
  - Away from direct sunlight
- Do not stack unprotected rolls or lay sharp or heavy objects on them.

### Health and Safety

### **↑** Caution

When handling any chemical products, read the manufacturers' container labels and the Material Safety Data Sheets (MSDS) for important health, safety and environmental information.

To obtain MSDS sheets for 3M products:

- By fax, call 1-800-364-0768 in the US and Canada or 1-650-556-8417 for all other locations.
- Electronically, visit us at http://www.3M.com/msds.
- By mail, or in case of an emergency, call 1-800-364-3577 or 1-651-737-6501.

When using any equipment, always follow the manufacturers' instructions for safe operation.

## Warranty and Limited Remedies

# 3M MCS Warranty for Graphics Produced on HP DesignJet Printers and Epson Stylus Pro Printers

The following is made in lieu of all other express or implied warranties, including any implied warranty of merchantability or fitness for a particular purpose: We warrant graphics produced by a 3M Ink Jet Registered Fabricator made with imaging media 8522, printed on an approved HP thermal ink jet printer according to HP's recommendations or Epson Stylus Pro printer according to Epson's recommendations, overlaminated with 8519 or 8520, and applied to a Warranted Substrate according to 3M's recommendations. These

graphics are covered against failure caused by ultraviclet light, temperature extremes, pollution, and other elements.

If a graphic fails to perform in accordance with 3M product specifications within this time frame, 3M will replace the materials at no charge. These remedies are exclusive. In no case shall 3M be liable for any direct, indirect, or consequential damages, including any labor charges.

#### 3M Related Literature

Listed below is related 3M technical literature that may be of interest. You may view and print these Bulletins from our Web site at www.scotchprint.com, or order them via our Faxon-Demand (FOD) system. Call one of these phone numbers to order the desired bulletins, and specify the FOD document number provided in the chart.

United States or Canada: 1-800-364-0768 International: 1-651-732-6506

| Subject   | Bulletin<br>No. | FOD<br>No. |
|---|-----------------|------------|
| Product Bulletins   |                 |            |
| 3M <sup>™</sup> Scotchcal <sup>™</sup> Overlaminate 8519 and 8520                                   | 8519/8520       | 4524       |
| Instruction Bulletins   |                 |            |
| Making thermal ink jet graphics   | 4.23            | 6523       |
| Application, substrate selection, preparation and substrate-specific application techniques         | 5.1             | 7001       |
| Warranties  |                 |            |
| Worldwide 3M <sup>™</sup> MCS <sup>™</sup> Warranty Packe (includes all Commercial Graphics MCS War | t<br>rranties)  | 9503       |
| Worldwide 3M ™ MCS ™ Warranty Overvi  | ew-Folder       | 9504       |

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Epson and Stylus Pro are trademarks of Epson.
HP and DesignJet are tradenames of Hewlett Packard.
Sintra is a trademark of Swiss Aluminum Ltd.
Imron is a registered trademark of DuPont in the United States

#### **Bulletin Change Summary**

The Epson Stylus Pro Printers 9500, 10000 10600, and Epson Archival Inks have been added to this bulletin. Additional changes resulting from this addition are marked with black bars in the margin.

### 3M

Commercial Graphics Division 3M Center, Building 220-6W-06

PO Box 33220 St. Paul, MN 55133-3220 USA General Info. 1-800-374-6772 Technical Info. 1-800-328-3908 Fax 1-651-736-4233 3M Canada P.O. Box 5757 London, Ontario

Canada N6A 4T1 1-800-265-1840 Fax 519-452-6245 3M México, S.A. de C.V. Av. Santa Fe No. 55 Col. Santa Fe, Del. Alvaro Obregón México, D.F. 01210

52-55-52-70-04-00 Fax 52-55-52-70-22-77 3M Puerto Rico, Inc.

Puerto Rico Industrial Park P.O. Box 100 Carolina, PR 00986-0100 787-620-3000 Fax 787-750-3035

Fax-on-Demand 1-800-364-0768 US/Canada or 1-651-732-6506 International Fax-on-Demand document: 4506 www.scotchprint.com

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Product Bulletin 8522 - 3



210 MAIN W., HAWKESBURY, ONT. K6A 2H6

Tel.: 613 632-5449 Fax: 613 632-9491

www.studiolettrage.on.ca

INVOICE / FACTURE

No.: 9538

11/26/2007

DATE: 11/2

PAGE 1 of 1

Re: Quote No. 4275

Dart Aerospace Ltd

LIVRÉ À:

SHIPPED TO:

Hawkesbury, Ontario

VENDU À: SOLD TO:

> Dart Aerospace Ltd 1270 Aberdeen Hawkesbury, Ontario K6A 1K7

| ITEM<br>ARTICLE | QTY<br>QYÉ | UNIT<br>UNITÉ  | DESCRIPTION   | GST<br>TPS  | PST<br>TVP | UNIT PRICE<br>PRIX UNITÉ    | AMOUNT<br>MONTANT                  |
|-----------------|------------|----------------|---|-------------|------------|-----------------------------|------------------------------------|
| ARTICLE         | Q1E        | 20<br>110<br>1 | D2258200p maximum 200lb d36711 red arrow on white printing set up       | G<br>G<br>E |            | 7.0000<br>0.4545<br>50.0000 | 140.00<br>50.00<br>50.00<br>240.00 |
|                 |            |                | E - GST @ 6%<br>G - GST @ 6%; PST @ 8%<br>GST<br>PST Exempt: #6122-5207 | -           |            |                             | 14.40                              |
|                 |            |                | •   |             |            |                             |                                    |
|                 |            |                |   |             |            |                             |                                    |
|                 |            |                |   |             |            |                             |                                    |
|                 |            |                |   |             |            |                             |                                    |
|                 |            |                | GST/TPS: R122278690   |             |            |                             |                                    |
| po5110          |            |                |   |             |            | TOTAL                       | 254.40                             |

Sold By:

Merci! Thank You!